

Name: _____

at1113exam: Expand, factor, and solve quadratics (v309)

1. Expand the following expression into standard form.

$$(4x + 3)(4x - 3)$$

2. Expand the following expression into standard form.

$$(2x - 5)^2$$

3. Solve the equation.

$$(2x - 5)(8x + 3) = 0$$

4. Expand the following expression into standard form.

$$(9x + 5)(2x + 3)$$

5. Solve the equation with factoring by grouping.

$$10x^2 + 8x + 15x + 12 = 0$$

6. Factor the expression.

$$x^2 - 4x - 32$$

7. Solve the equation.

$$9x^2 - 17x + 3 = 2x^2 - 4x - 3$$

8. Factor the expression.

$$49x^2 - 16$$